BRUHAT BANGALORE MAHANAGARA PALIKE

YELHANKA ZONE ELECTRICAL DIVISION

Name of Work:-Detailed Estimate for Maintenance & Repairs to Existing Park Lightings,etc to the existing Installation in Park at Byatrayanapura Constituency in Ward no 07.

Budget Head .....

Division No..... Estimate No. .....72..... For Rs. **500000.00**

Sl. No.	SR Page & SL No	Description of Work	Unit	Qty.	Rate	Amount
1	1.1.1	Digging of Pits 1.8 mtr depth for errection of 9 to 10mtr Long Steel/RCC/PSC supports as per approved Drawing.Ordinary Soil	Nos	6	378.00	2268.00
2	2.1	Erection of steel supports 9.0 to 10.00 mtr long suchas 22.68 kg (50 lbs) Rail, 27.22 kg (60 Lbs) Rail IBeam of sizes 200x100mm, 175x90 mm, 125x100mm. Fabricates poles tubular poles in pits of 1.8 mtrDepth, Aligning, Refilling with soil and ramming asapproved drawing	Nos	6	304.00	1824.00
3	1.8.2	Pole concreting with CC 1:2:4 (without coping) f) 8mtrs support (400x400x1500mm)	Nos	6	982.00	5892.00
4	27.1	Transportation using 7.5/10 Tons Lorry Rs. 23 per Kms subjected to a minimum of Rs. 1200/-per day (shifting of Panel boards & Poles)	Nos	3	1200.00	3600.00
5	16.28.3	Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/footing of the pole .8Mtr and above street light pole.	Nos	6	700.00	4200.00
6	6/2.6.7	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and **Copper** conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm	Mtrs	40	132.00	5280.00
7	6/2.6.2	1.5 sqmm	Mtrs	300	15.90	4770.00
8	55/7.1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	Nos	5	2727.00	13635.00
9	45/6.7.4	Supplying and fixing of Procelain fuse channel with cut out on exisiting wooden/panel using necessary nuts, bolts and washers etc., complete.d) 100 Amps	Nos	10	360.00	3600.00
10	62/7.12.1	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. A)40MM.	Mtrs	12	345.00	4140.00

11	49/6.40.2	Fabricating supplying and mounting MS box made out... SWG suitable lfor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	Sqcms	125000	0.33	41250.00
12	49/6.39.1	fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	Nos	25	263.00	6575.00
13	46/6.1.3.A.1	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps25kA.	Nos	5	4044.00	20220.00
14	46/6.1.2.4	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps	Each	5	9915.00	49575.00
15	32/9	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and waqshers etc.. Group A, PWD Elec SR 2006-07.	Nos	5	4200.00	21000.00
16	55/7.3	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required.I GI Strip. B)25X3mm	Nos	10	77.00	770.00
17	62/7.13.2	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.16 Sq mm	Mtrs	4	280.00	1120.00
18	55/7.4.5	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm	Mtrs	600	140.40	84240.00
19	61/7.8.2	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm	Mtrs	600	10.80	6480.00
20	62/7.9.1	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB I-2, P-7).a) In soil (ordinary)	Mtrs	495	78.00	38610.00

21	28/4.37.3	Supplying of LED Floodlight with .....W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE with Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficacy > 80lm/w. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer.LED Floodlight **110W**	Nos	10	17593.00	175930.00
22	4.1KPW D2015-16	KSRB 4-1 .1: Providing and laying in position plain cement concrete of cum 5,004.00 mix 1 :2:4 with ope cement @ 240kgs, with 40mm and down size gradedgranite metal coarse aggregates @O.B7Bcum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specificationsSpecification No. KBS 4.1, 4.2	Cumt	1	5004.00	5004.00
23		BESCOM DEPOSITE & Meter CHARGES				17.00
		Total				**500000.00**

Administrative Sanction for Rs. 5.00 LAKHS
Rupees FIVE LAKHS ONLY
Under P0298 M and R to Electrical Installations in park and Gardens play Grounds & Burial Grounds
Registered as EE No. 55/2018-19 Subject to conditions contained in enclosed memo EE No. BBMP/EE(Elec)/42/AS/55/2018-19 Dt 18.02.2019
Executive Engineer

CERTIFICATE

1. The Place was inspected and work is essential.
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD (Elec) SR of 2014-15 /BESCOM sr OF 2016-17

C.N. Babu

Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YALAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

TECHNICALLY SANCTIONED FOR Rs. 5.00 LAKHS
Rupees FIVE LAKHS ONLY
Under P0298 M. and R to Electrical Installations in park and Gardens
Registered as EE ( ) No. A9/2018-19
Subject to conditions contained in enclosed memo EE ( ) No. BBMP/EE/Elec/42/AS/55/18-19
Dt. 18.02.2019
Estimate is Sanctioned
BBMP/EE/Elec/42/TS/A9/2018-19
Dated 18.02.2019 Rs. 5.00 LAKHS
Executive Engineer